

**FAX COVER SHEET**

Frank Cordiale  
1695 Marvel Way  
Reno, Nevada 89502  
Washoe  
(775) 828-7392  
Fax: Same

SEND TO	From
Company name  United States Patent office	Frank J. Cordiale
Attention  Judson H. Jones, Examiner/Art unit 2834	Date  3/3/03
Office location  Washington, DC.	Office location  1695 Marvel Way
Fax number  (703)746-4174	Phone number  (775) 828-7392

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Note Attached documents are the re-worked Ammendments as of 3/3 2003

May also be reached at Cell # (775) 232-1541 or (775) 232-1517

Mail to: Dynamic Energy, LLC., Frank J. Cordiale, P.O. Box 70308, Reno, NV, 89570-0308  
Respectfully,

Frank J. Cordiale



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application

**FRANK JOSEPH CORDIALE**

Serial No: 09/731,637

Filed: 12/07/00

For: BRUSHLESS ELECTIRC MOTOR

Examiner: JUDSON JONES

Art Unit: 2834

**AMENDMENT**

Box non-fee Amendments

Commissioner for Patents

Washington, D C. 20231

Dear Sir:

**This Amendment is in response to the Office Action dated January 11, 2003.****Clean version Claims 1 through 17**

1. The prime mover consists of a cylinder, steel piston, bar shape, alternately spherical shape piston disposed axially concentric with cylinder connected to connecting rod and crank shaft for rotation, said cylinder is cylindrical in shape constructed with an integral top and bottom flanges and center divider of proper diameter and thickness to provide separation of upper and lower windings, wound with copper filament above and below said center divider ,flush with each side of divider are "half moon" shaped permanent magnets held in place under said windings, for purpose of providing a control means for positioning starting point of said piston when windings are de-energized, incorporated in said prime mover assembly and function is one circular permanent magnet located above top of piston chamber and mounted for adjustment to allow up and down movement of magnet as desired for inter-action with magnetic flux.
2. A prime mover as set forth in claim 1 wherein prime mover is equipped with an electrical control circuit that distributes current to upper and lower portions of

windings, prime mover operation is accomplished by alternate energizing of top and bottom windings, which introduces alternating electromagnetic forces acting on said steel piston and establishing reciprocating motion.

3. A prime mover as set forth in claim 1 wherein another circular permanent magnet mounted in similar manner as top mounted magnet is installed below bottom cylinder piston chamber.
4. A prime mover as set forth in claim 1 wherein said windings are on a cylinder constructed of high temperature resistant polymer.
5. A prime mover as set forth in claim 1 wherein said inside diameter of said non-magnetic cylinder is bored and reamed to a slip fit tolerance for said piston.
6. A prime mover as set forth in claim 1 wherein said cylinder does not require an insert.
7. A prime mover as set forth in claim 1 wherein said cylinder is constructed with top and bottom flanges.
8. A prime mover as set forth in claim 2 wherein said electrical control switches previously referred to as metal detectors are now referred to as optical switches.
9. A prime mover as set forth in claim 2 wherein said electrical motor control- board consisting of manually dialed selection of on / off speed control, by directing function of computer chips, allowing acceleration or deceleration, thereby controlling said prime mover and opening and closing of time duration for current flow to each winding individually.
10. A prime mover as set forth in claim 1 wherein said crankshaft is connected to a flywheel equipped with a special high polished aluminum- disk surface area at face of said disk is designed to interface during rotation with the optical switch beams to

open and close voltage distribution, a section of said disk is covered with black dye to interrupt reflection to optical switches, said remaining high polished surface area reflects back to energize optical switches, this is accomplished by proper ratio of polished surface area to black dyed surface area of said disk to cause a time duration, on-off that is coordinated with piston position in said prime mover, location of said optical switches is at 9 O'clock and 3 O'clock directed toward face of said flywheel disk to allow time dwell adjustment and positioning in such manner as to properly interface with said disk, optical switches are also enclosed to prevent transient light sources that may cause interference with reflection to optical switches.

11. A prime mover as set forth in claim 1 wherein said piston is attached to a connecting-rod mounted in an enclosure.
12. A prime mover as set forth in claim 1 wherein said piston is disposed in a cylinder that is equipped with proper inlet connection to allow fluid flow.
13. A prime mover comprising a cylindrical framework wound with at least two copper filaments a steel piston disposed axially concentric with said framework a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward center position of said copper filaments at least one switch for controlling energy flow in each of said copper filaments wherein said piston reciprocates based upon said alternate energy of said windings, and exits said cylinder when an exit winding is not energized in one cycle.
14. A prime mover as set forth in claim 12 wherein said cylinder further comprises a fluid outlet to operate as a pump.